MAGNETIC COUPLING PUMP

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Abstract

PURPOSE: To improve pump efficiency through reduction of rotation resistance, to improve durability, and to suppress the increase of size by a method wherein a thrust load is hardly exerted on a bearing to support an impeller.

CONSTITUTION: An impeller 13 having a rotation center 0 arranged in a vertical direction is rotatably supported in a pump chamber 1, having a suction port 2a and a discharge 2b with a bearing 5 located therebetween. In the impeller 13, a blade plate 13c is protruded from the under surface side and an annular magnet 14 is fixed concentrically to the rotary central shaft O. The impeller 13 is rotated by a magnetic force exerted from the upper surface side of the impelier 13 at the periphery of the pump chamber 1 and attracting a magnet 14 and fluid L is fed. An annular mass body 15 is fixed on the outer peripheral side of the magnet 14 of the impeller 13.

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